

March 14, 1974

CENTRAL DISTRICT OFFICE
P.O. Box 1049
369 East Broad Street
Columbus, Ohio 43216

Franklin County
Columbus
Marble Cliff Quarries - South
(Proposed Sanitary Landfill)
Solid Waste

Joseph Harper, Vice President
of Operations
MCQ Industries, Inc.
2100 Tremont Center
Columbus, Ohio 43221



John J. Gilligan
Governor
Dr. Ira L. Whitman
Director

Dear Mr. Harper:

On March 6, 1974, a meeting was held in the O.E.P.A. Seneca Towers to discuss the proposed sanitary landfill to be located on the western side of an abandoned quarry which is south of Trabue Road and east of McKinley Avenue. A site investigation was previously made on February 13, 1974, by this writer; Don Day, O.E.P.A.; Hal Hyrne and Don Craven, City of Upper Arlington.

In general, the site is unsuitable for development of a sanitary landfill due to the fractured - jointed nature of the underlying limestone and the close proximity of the ground water. However, the site can be considered for development of a sanitary landfill on the condition that adequate protection to ground and surface waters be assured.

In preparing the detail plans for submittal to this Agency for approval, the "Design and Operating Guidelines for Sanitary Landfills in Ohio" bulletin (copy enclosed) should be followed. In conjunction with these guidelines the following information will be necessary to properly evaluate the effectiveness of operating the proposed site as a sanitary landfill.

1. An underseal and side wall seal will be required to prevent ground and surface water contamination. ASTM Specification D-2434 Analysis is to be reported on the flume sand to be used as the underseal and side wall seal materials. Maan Osman, soil scientist, O.E.P.A. - Division of Planning, is to be contacted (614)466-8866 before proceeding with the above analysis.

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2. Assuming that the flume material is suitable for undersealing, to determine the quantity of flume sand to be needed as an underseal material, the above noted results and the degree to which the flume sand is to be compacted are required.
3. Additional representative samples of flume sand must be collected to determine the average characteristics of this material.
4. Assuming the floor and sides of the quarry are adequately sealed, it will be necessary to collect and properly dispose of the leachate generated within the sanitary landfill. A detailed scheme for surface water diversion and leachate collection must be submitted with comment regarding the need for toe drains at the base of highwalls. Evidence to show the final disposition of leachate (treatment and/or connection with municipal sanitary system) must likewise be submitted.
5. Monitoring wells should be proposed to identify any possible leakage away from the area of containment. The wells should be located immediately down-gradient from the fill area. Wells should be installed and sampled for background data prior to operation.
6. In the event that off-site cover material is required, which has been suggested, there must be a firm commitment stating how much is needed, from what source, physical characteristics, and quantity guaranteed available on a monthly or other basis. Also, what evidence can be produced to show secondary sources of cover material?

Four sets of detail plans are to be submitted to this office so that they can be reviewed and forwarded to the Director's office with our recommendations. You must receive formal approval from the Director prior to construction. A completed application for permit to install must accompany the detail plans (application form is enclosed). (The conditions for site approval noted in this letter should be considered as being valid for one year from the date of this letter.)

Although we do not expect objections to our recommendation, we do wish to caution you by stating that final approval cannot be assured until the final plan approval has been issued and an appropriate time given for the receipt and evaluation of possible objections.

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If you have any questions, please contact me at this office.
(614-466-6450)

Yours truly,

THOMAS J. RUSNAK
District Engineer

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Enclosure

cc: Columbus City Health Department
Don I. Craven, Consulting Engineer
Richard W. Rush, District Conservationist
Richard Jackson, Columbus Public Service Director
Don Day, WM&E
Maan Osman, Division of Planning
Bill Sellers, Division of Planning
Russ Stein, Surveillance
John Noyes, Surveillance
Noreen Wills, Public Interest Center
CDO - Surveillance